

# INTERNATIONAL SEARCH REPORT

Inten      I Application No  
PCT/NL 03/00859

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7    F15B13/07    F16K31/163    B62D33/067

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7    F15B    F16K    B62D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 985 194 A (KNUTSON DALE A) 12 October 1976 (1976-10-12) cited in the application abstract; figure 1	1
A	US 2002/046834 A1 (VONGPHAKDY VONG ET AL) 25 April 2002 (2002-04-25) paragraph '0134! - paragraph '0136!; figures 1,15,17A	1,29
A	FR 2 743 047 A (RENAULT VEHICULES IND) 4 July 1997 (1997-07-04) abstract; figures 2,3	1
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

10 March 2004

Date of mailing of the international search report

19/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

SLEIGHTHOLME, G

# INTERNATIONAL SEARCH REPORT

Inten | Application No

PCT/NL 03/00859

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 029 119 A (KLIEVES) 14 June 1977 (1977-06-14) column 5, line 5 - line 32 figures 2-4,8 column 5, line 50 - line 65 column 3, line 37 - line 40 ---	1,5,6, 14,24,29
A	US 5 022 426 A (FISCHER) 11 June 1991 (1991-06-11) column 2, line 57 -column 3, line 34; figure 3 ---	1-4
A	EP 1 088 509 A (BSH BOSCH SIEMENS HAUSGERAETE) 4 April 2001 (2001-04-04) column 5, line 48 -column 6, line 23; figure 2 -----	1

# INTERNATIONAL SEARCH REPORT

ational application No.  
PCT/NL 03/00859

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-28

Hydraulic tilting device

2. Claim : 29

Valve

# INTERNATIONAL SEARCH REPORT

mation on patent family members

Inten

pplication No

PCT/NL 03/00859

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3985194	A	12-10-1976	AU 500081 B2	10-05-1979
			AU 8416175 A	24-02-1977
			CA 1043661 A1	05-12-1978
			DE 2536712 A1	18-03-1976
			FR 2283040 A1	26-03-1976
			GB 1508817 A	26-04-1978
			IT 1041360 B	10-01-1980
			JP 1287253 C	31-10-1985
			JP 51051822 A	07-05-1976
			JP 60009953 B	14-03-1985
			NL 7510265 A ,C	02-03-1976
			SE 402083 B	19-06-1978
			SE 7509319 A	01-03-1976
			US RE29938 E	20-03-1979
US 2002046834	A1	25-04-2002	AU 766201 B2	09-10-2003
			AU 7822501 A	02-05-2002
			BR 0107132 A	15-04-2003
			CA 2359566 A1	20-04-2002
			GB 2376055 A	04-12-2002
			GB 2389405 A	10-12-2003
			GB 2389406 A	10-12-2003
			NO 20015100 A	22-04-2002
			SG 98040 A1	20-08-2003
			US 2002046843 A1	25-04-2002
			US 2002046845 A1	25-04-2002
FR 2743047	A	04-07-1997	FR 2743047 A1	04-07-1997
US 4029119	A	14-06-1977	NONE	
US 5022426	A	11-06-1991	NONE	
EP 1088509	A	04-04-2001	DE 19947323 A1	05-04-2001
			EP 1088509 A1	04-04-2001